

FIG.1A

FIG. 1B

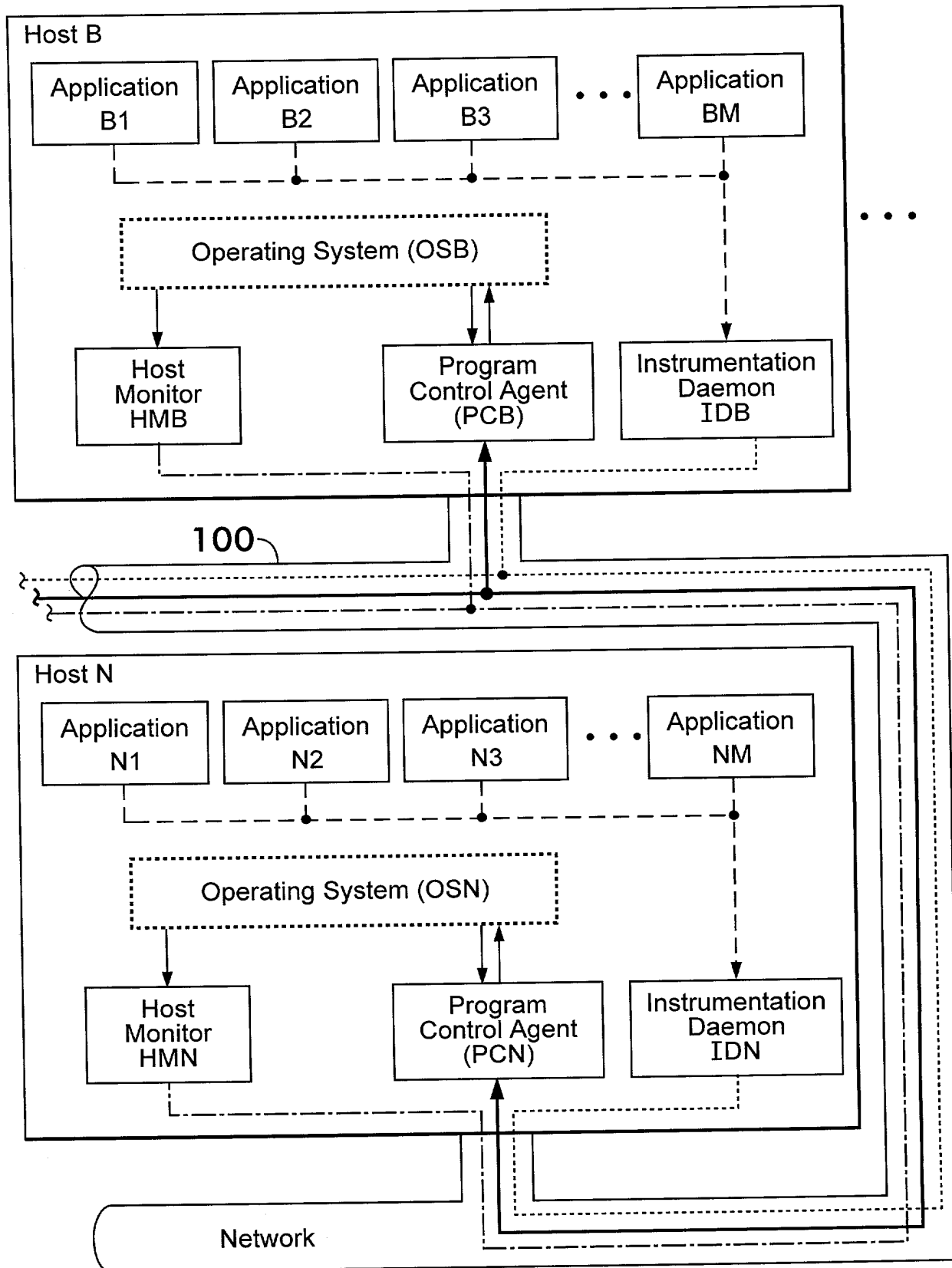
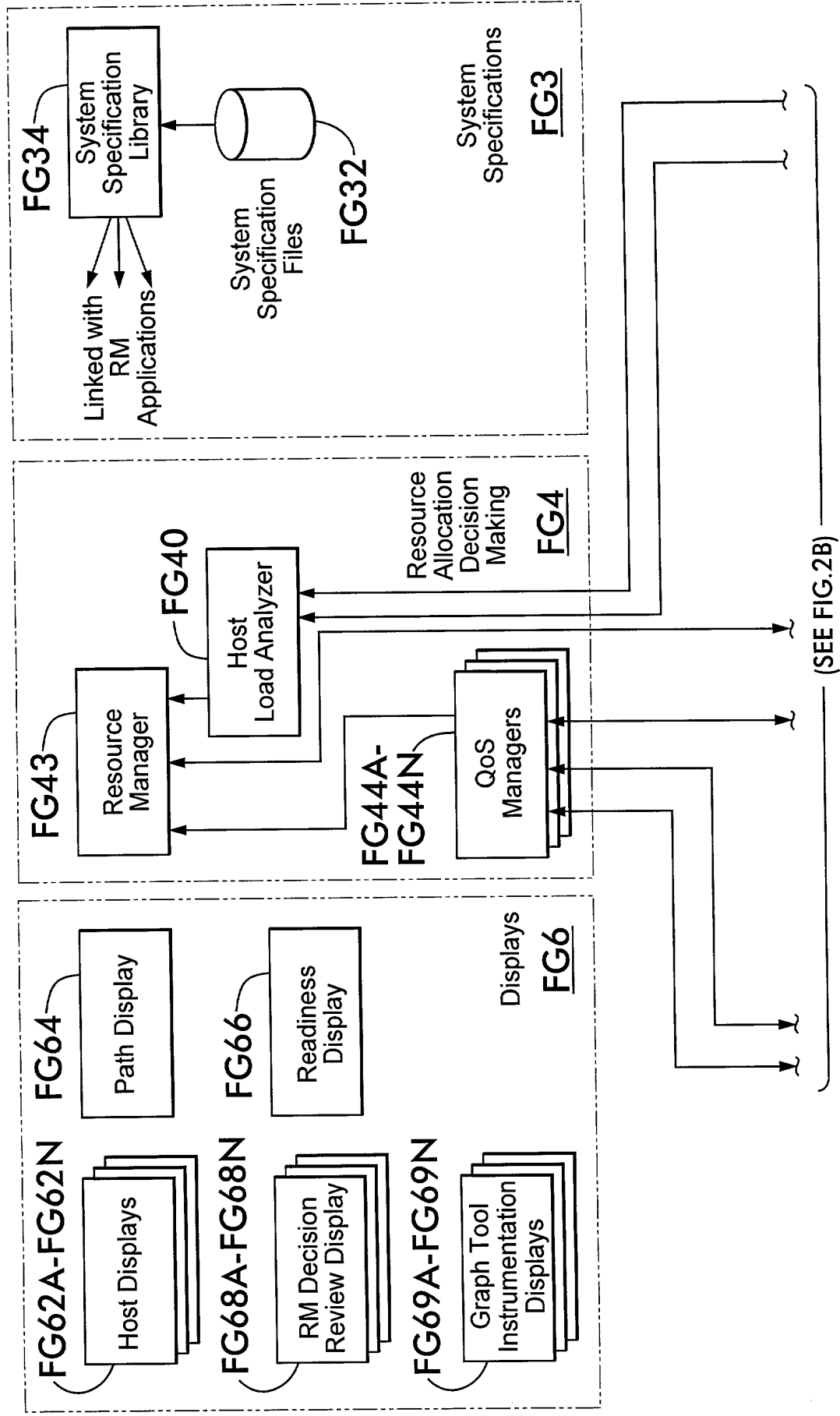


FIG. 2A



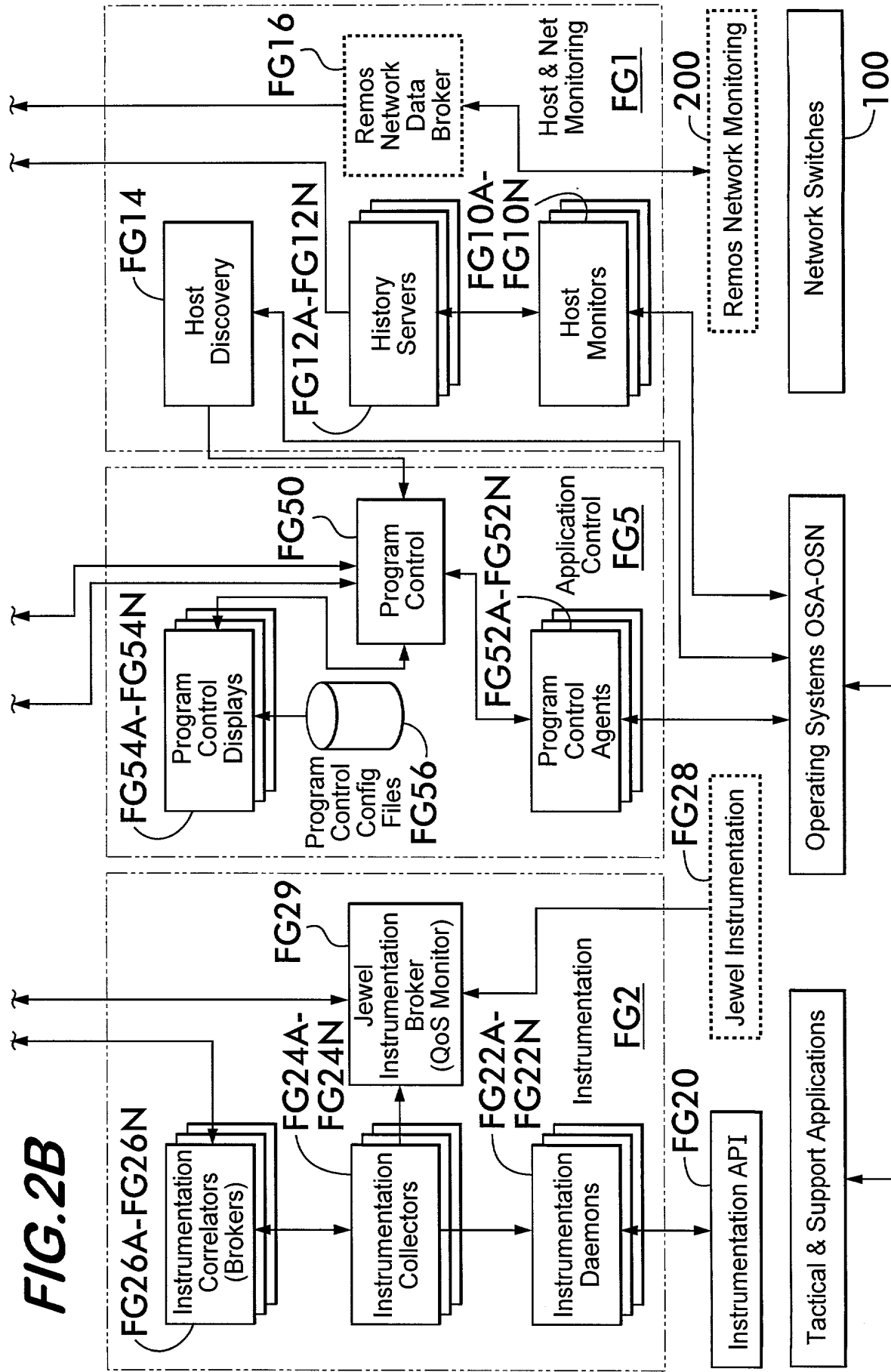
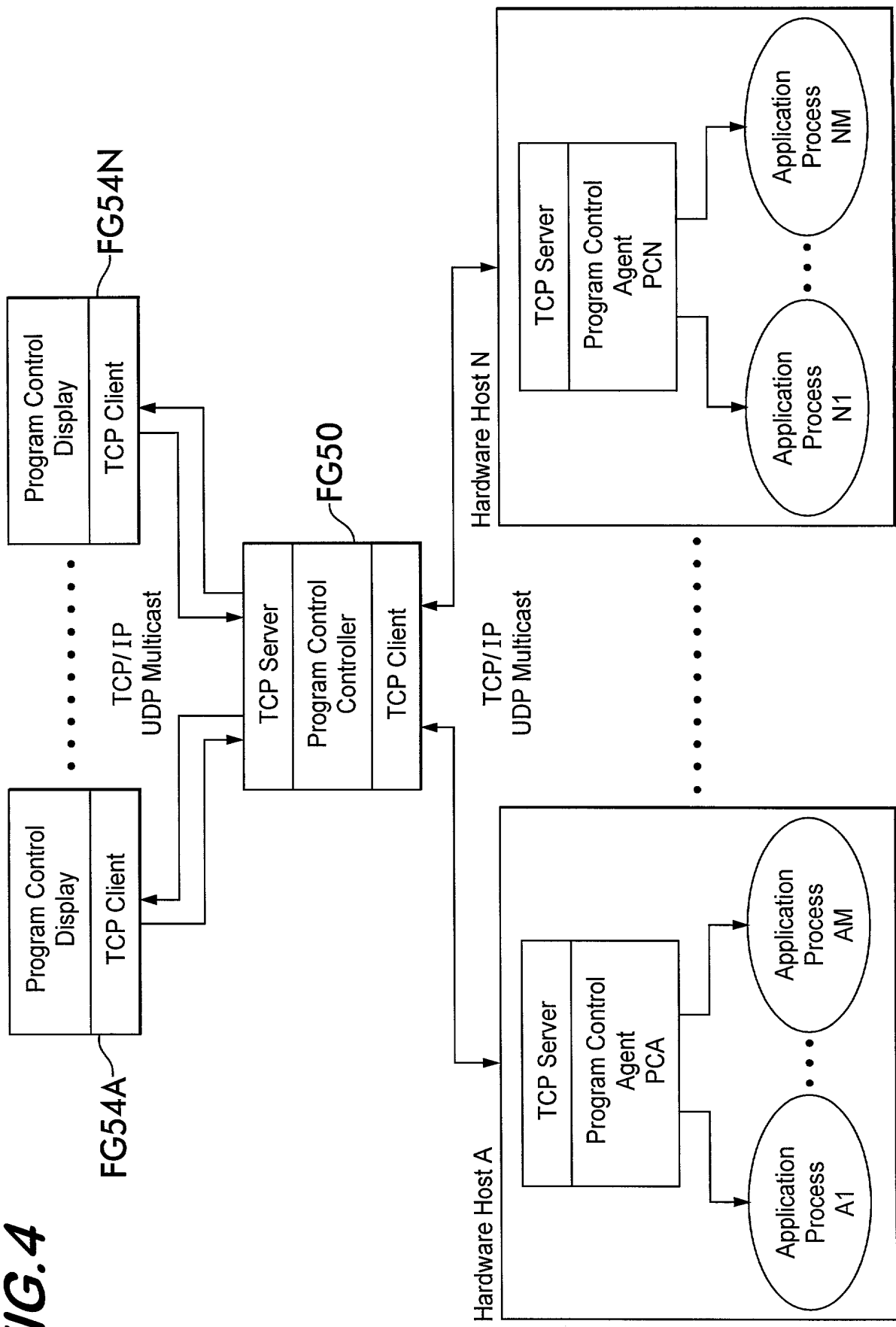


FIG. 4



ursa	Auto	lafonte	AAW:Tactical_Services:Manual_Engage	serpens
algol	Manual	lafonte	AAW:Tactical_Sims:WCS_Simulator	alphe3
carina	Auto	lafonte	AAW:Tactical_Sims:Gun_Simulator	serpens
cetys	Auto	lafonte	AAW:Tactical_Sims:CFF_Broker	serpens
corvus	Manual	lafonte	IDSys:ID_Broker	corvus
cordelia	Manual	lafonte	IDSys:SpyServer	deneb2
draco	Auto	lafonte	AAW:Tactical_Sims:IDU_Simulator	serpens
juliet	Auto	lafonte	AAW:Doctrine:Auto_Special	serpens
leda				

Alerts

FIG.5B

FIG.6A

(SEE FIG.6B)

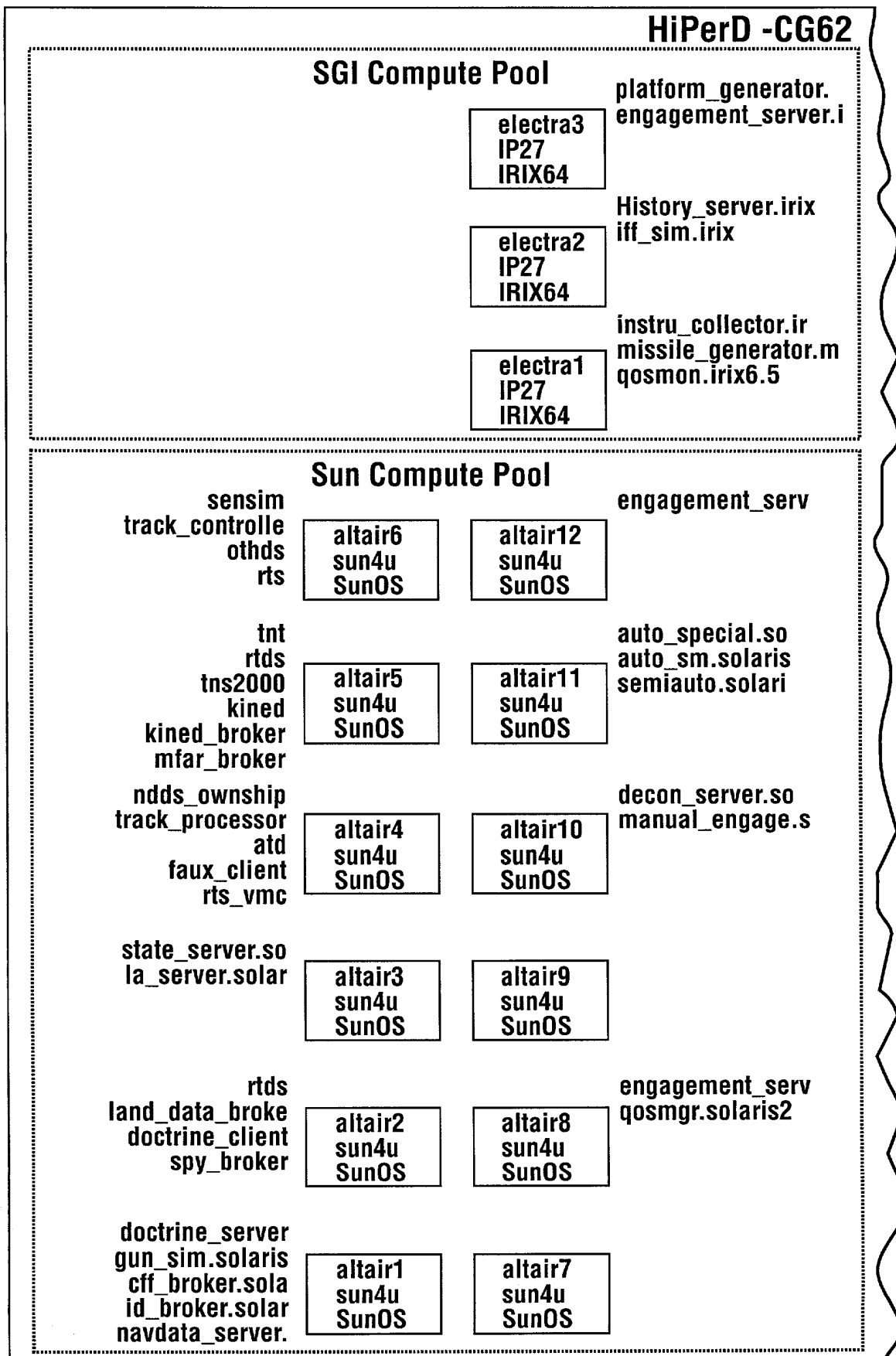


FIG.6A

FIG. 6B

Chancellorsville

DISBroker.linux
globus-daemons-
lrmstatus.csh
globusbroker.li
globusbroker.li
globusbroker.li
globusbroker.li
mfar_sim.ndds.l

Linux Compute Pool

lupus1
Pentium III (c
Linux

lupus11
Pentium III (c
Linux

lupus10
Pentium III (c
Linux

lupus9
Pentium III (c
Linux

lupus8
Pentium III (c
Linux

lupus7
Pentium III (c
Linux

lupus6
Pentium III (c
Linux

lupus5
Pentium III (c
Linux

lupus4
Pentium III (c
Linux

lupus3
Pentium III (c
Linux

lupus2
Pentium III (c
Linux

WinNT Compute Pool

java

phoebe7
Pentium Pro
Windows NT

java
java
java

phoebe6
Pentium Pro
Windows NT

java

phoebe4
Pentium Pro
Windows NT

phoebe3
Pentium Pro
Windows NT

java

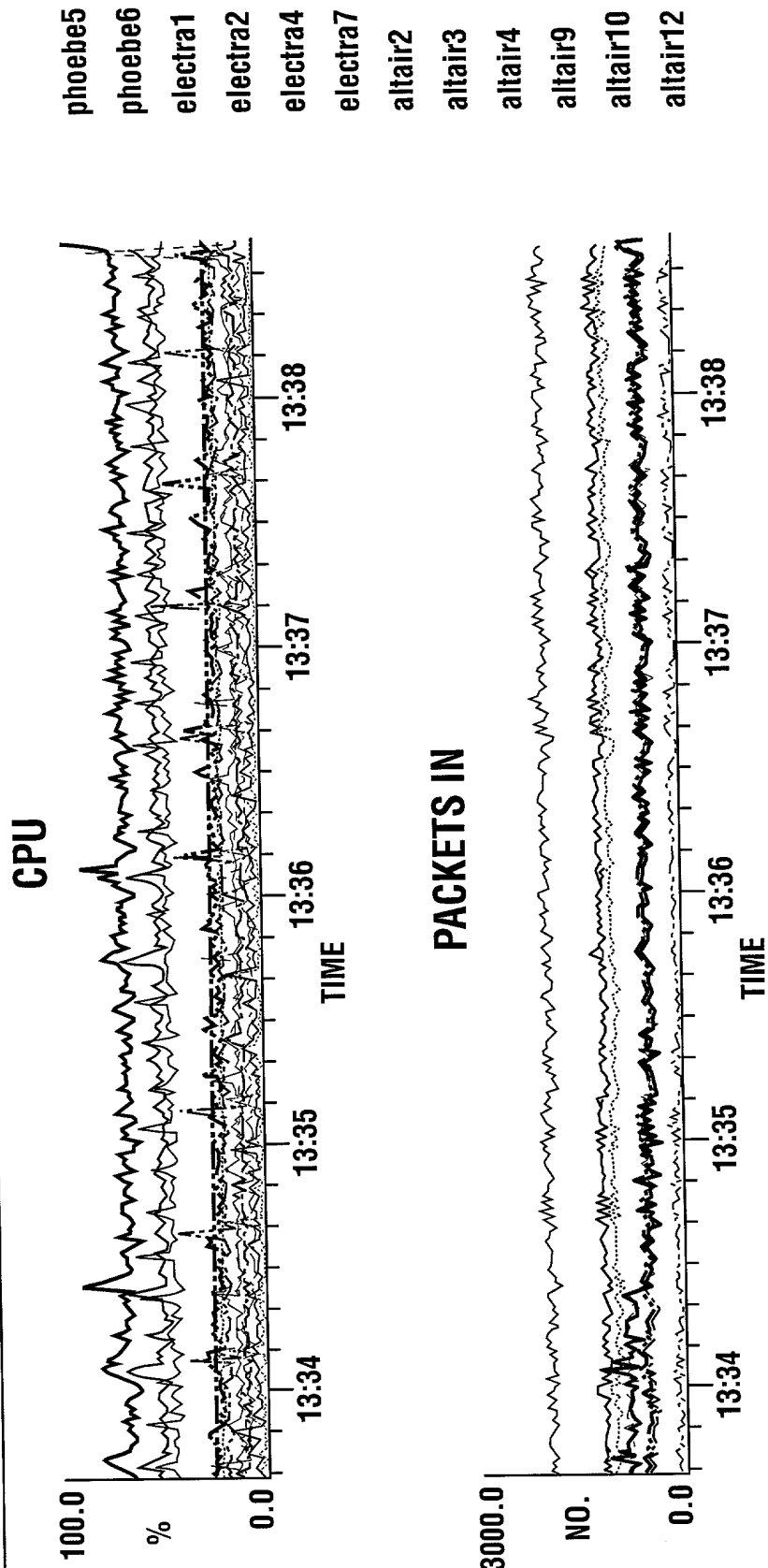
phoebe2
Pentium Pro
Windows NT

java

phoebe1
Pentium Pro
Windows NT

09564333.094504

FIG. 7A



(SEE FIG. 7B)

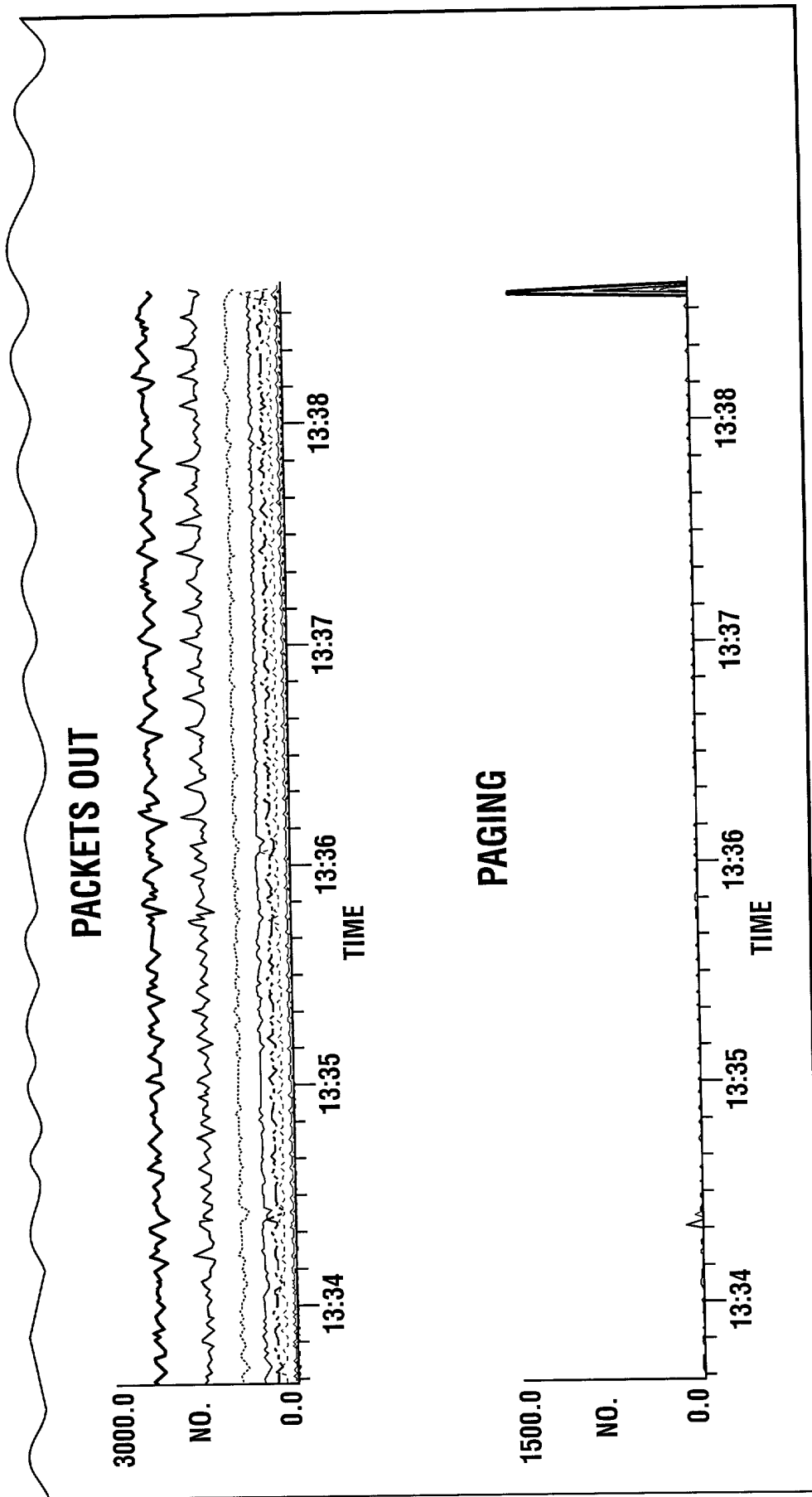
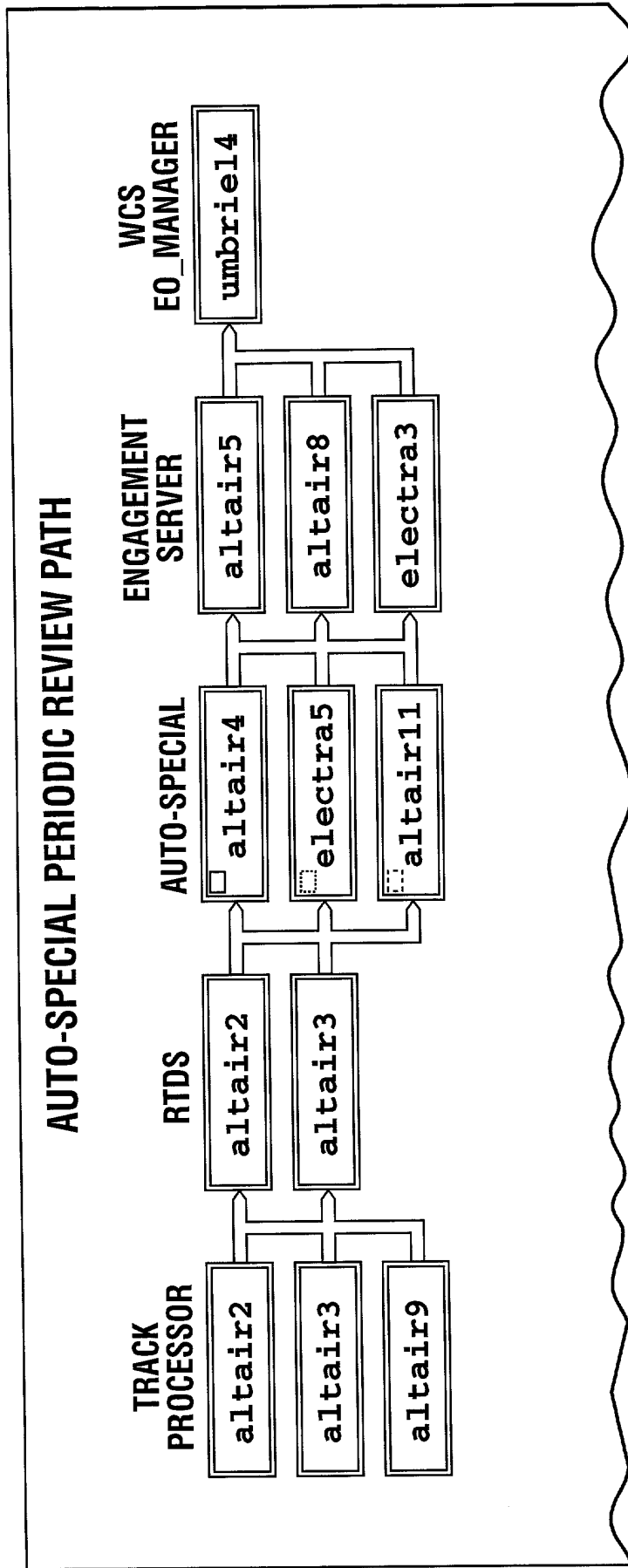


FIG. 7B

FIG. 8A



(SEE FIG. 8B)

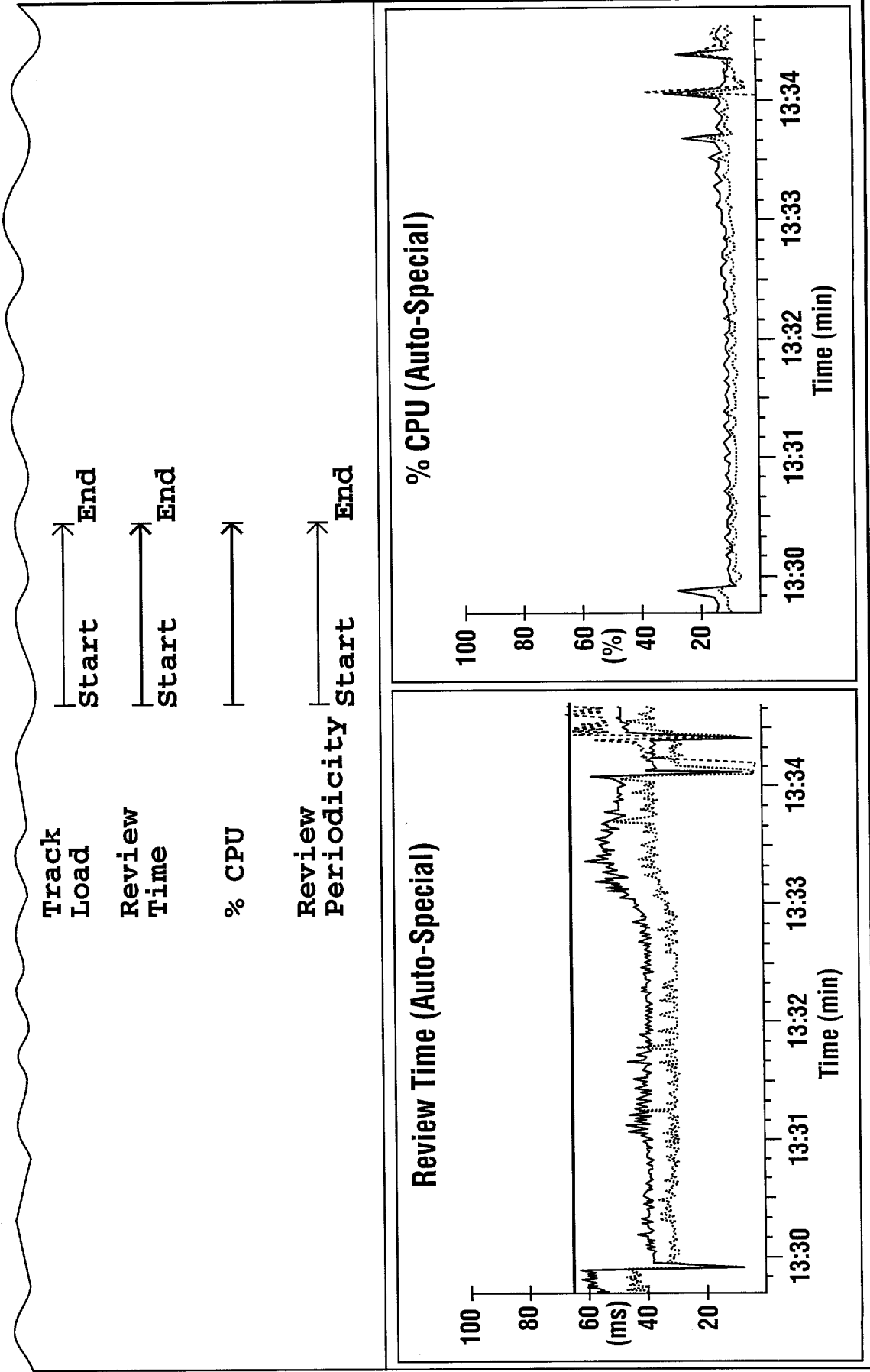


FIG. 8B

FIG. 9A

Resource Management

EVENTS HISTORY

EVENT#	ACTION TYPE	APPLICATION NAME	HOST EVENT	HOST ACTION
25	Application Scale Down	TBM_Doctrine	lupus7	
26	Application Scale Down	TBM_Doctrine	lupus7	
27	Application Scale Down	Engageability	altair10	
28	Application Scale Down	Engageability	altair12	
29	Application Scale Down	Engageability	altair8	
32	Application Restarted	QosManager_SpyDeclaredAS	orion1	altair8
33	Application Scale Up	Semi_Auto	altair11	electra2
34	Application Scale Up	Semi_Auto	altair11	altair7
35	Application Scale Up	Auto_Special	altair11	altair9
36	Application Scale Up	Semi_Auto	altair11	altair3

SCALE UP PLOT

APPLICATION: Semi_Auto EVENT#: 36

EVENT: Application Overload
PID:9615 ON HOST altair11

EVENT TIME: 14:24:56.6355

ACTION: Application Scale Up
PID:10186 ON HOST altair3

ACTION TIME: 14:24:56.6427 14:24:56.6846

RESPONSE TIME: 0.0073 0.0491

APPLICATION: Auto_Special EVENT#: 35

EVENT: Application Overload
PID:9613 ON HOST altair11

EVENT TIME: 14:24:33.2620

ACTION: Application Scale Up

(SEE FIG. 9B)

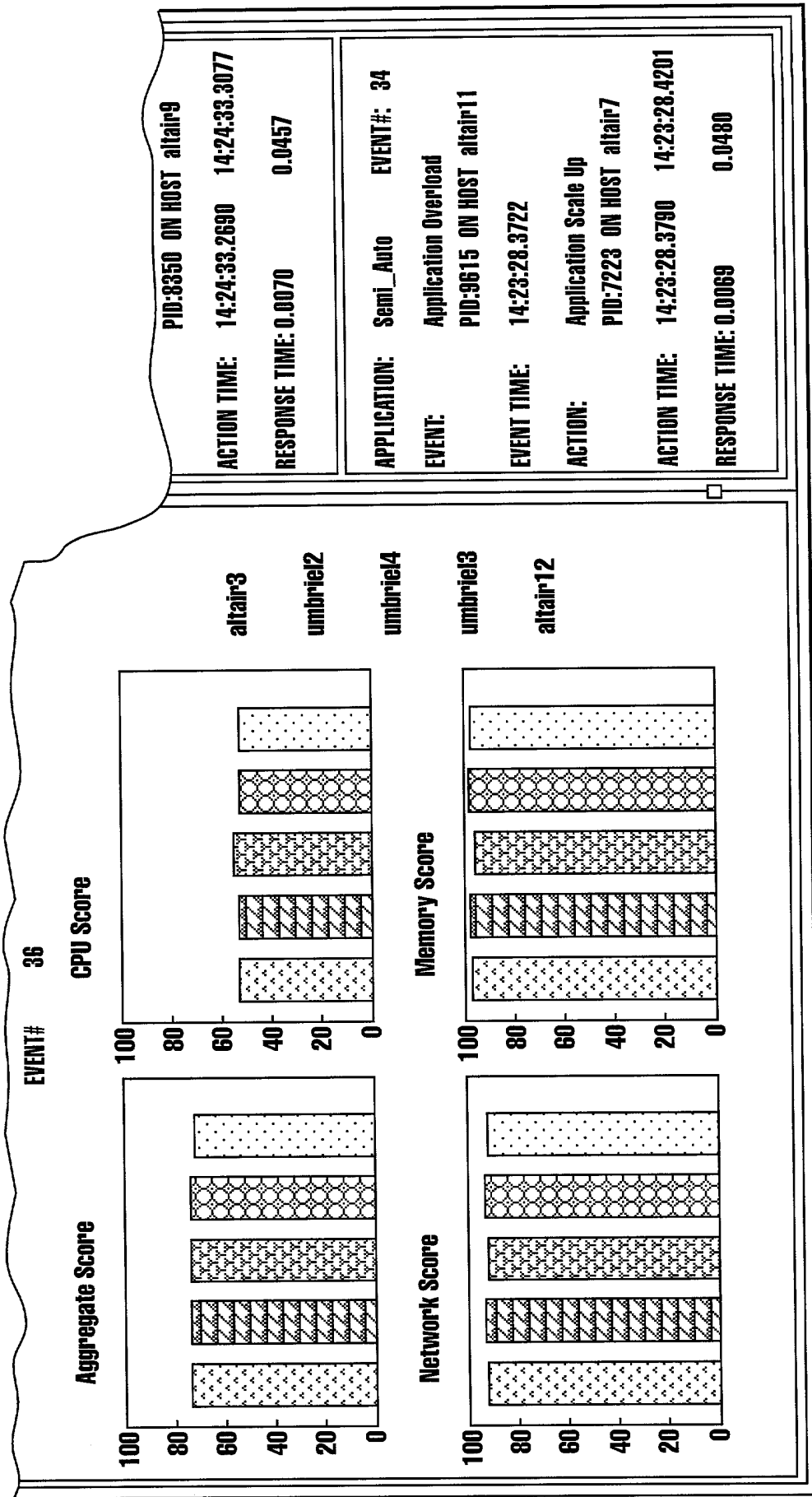
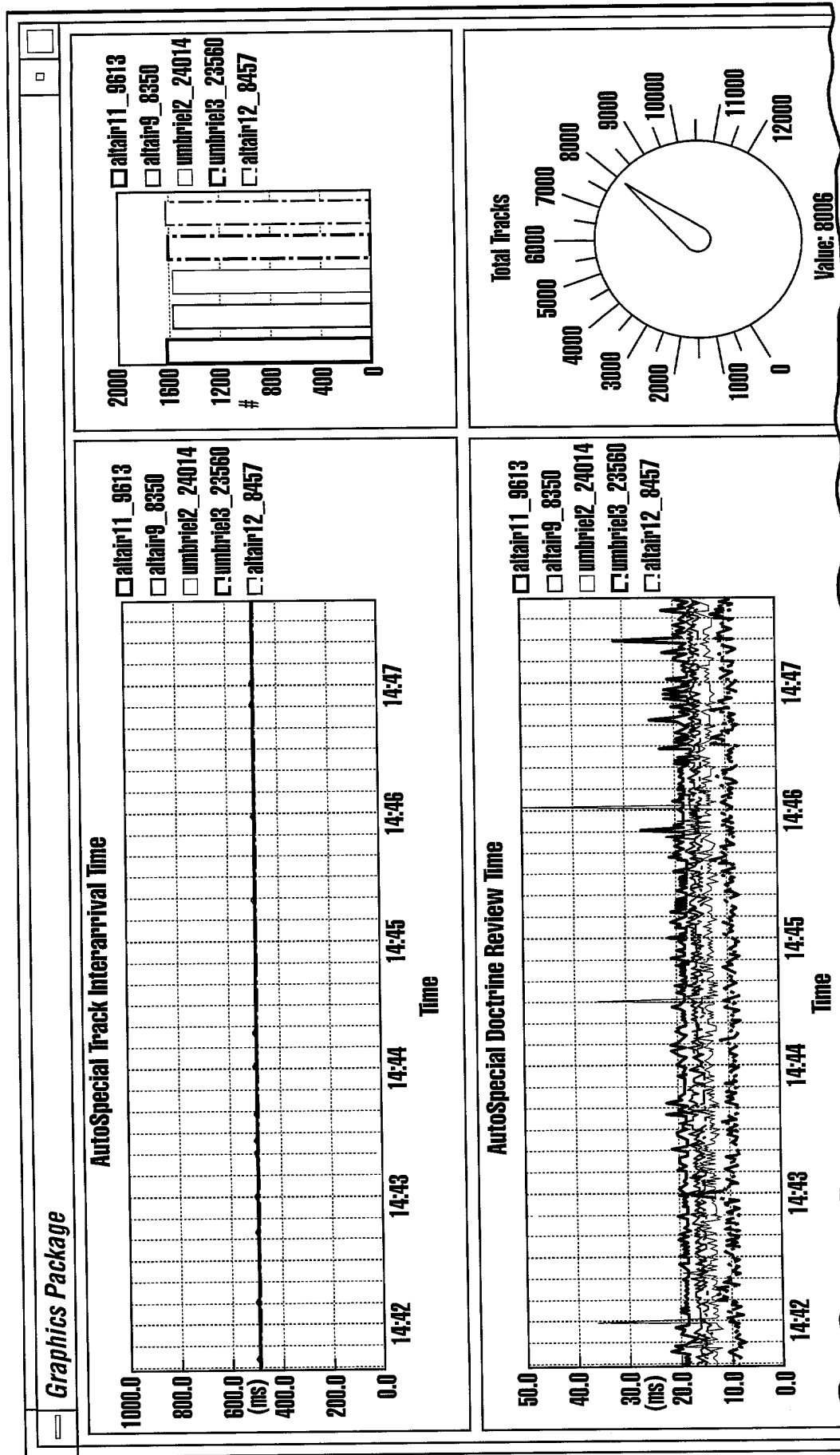


FIG.9B

FIG.10A



(SEE FIG.10B)

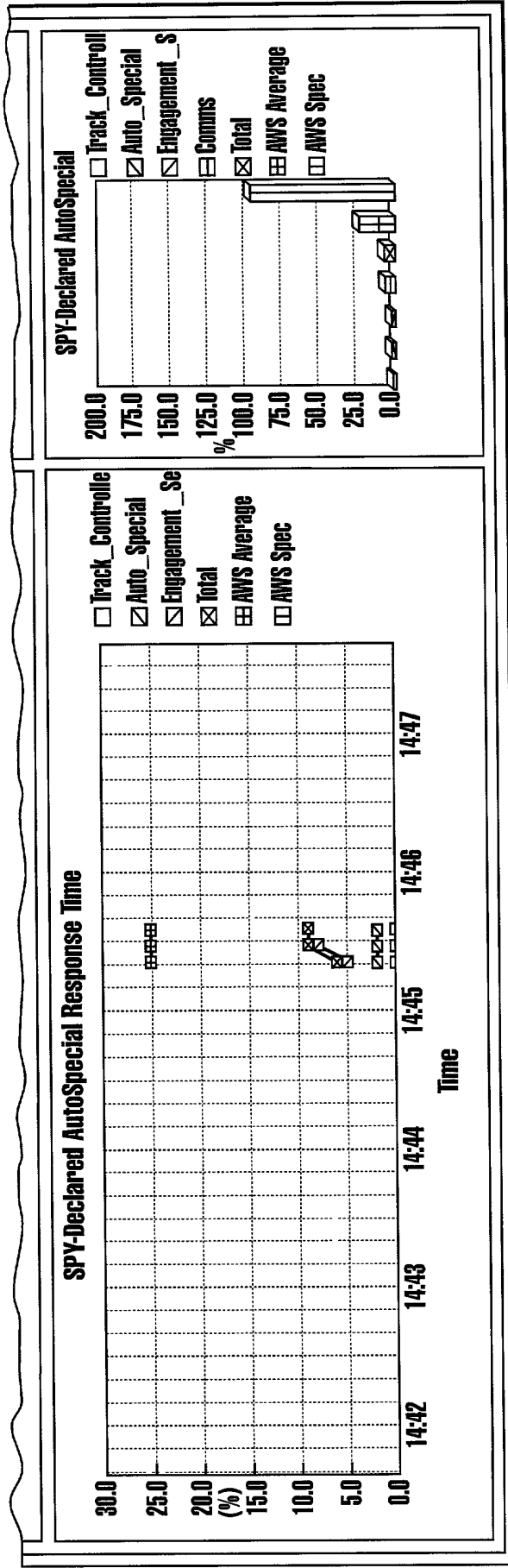
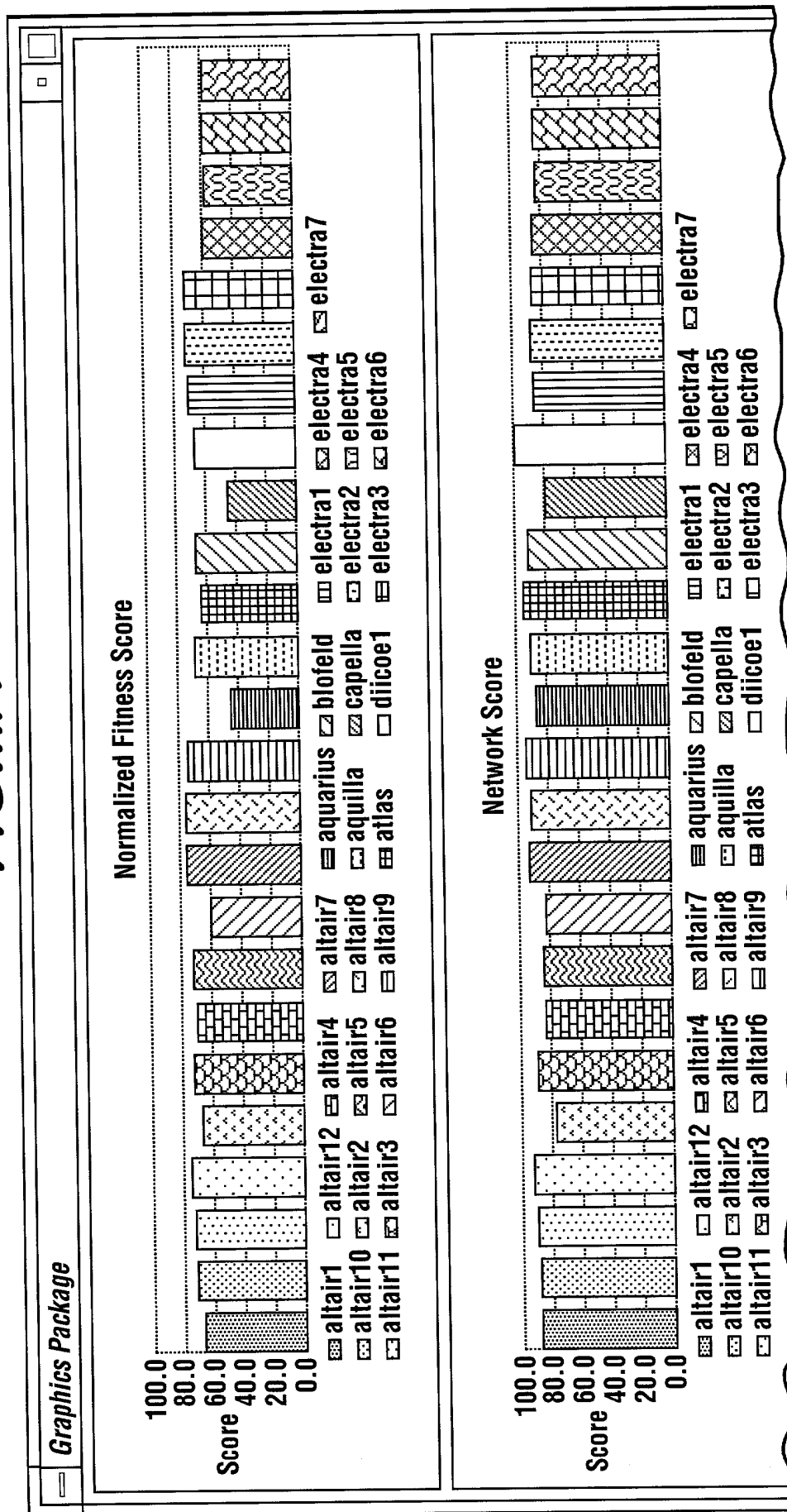


FIG.10B

FIG. 11A



(SEE FIG. 11B)

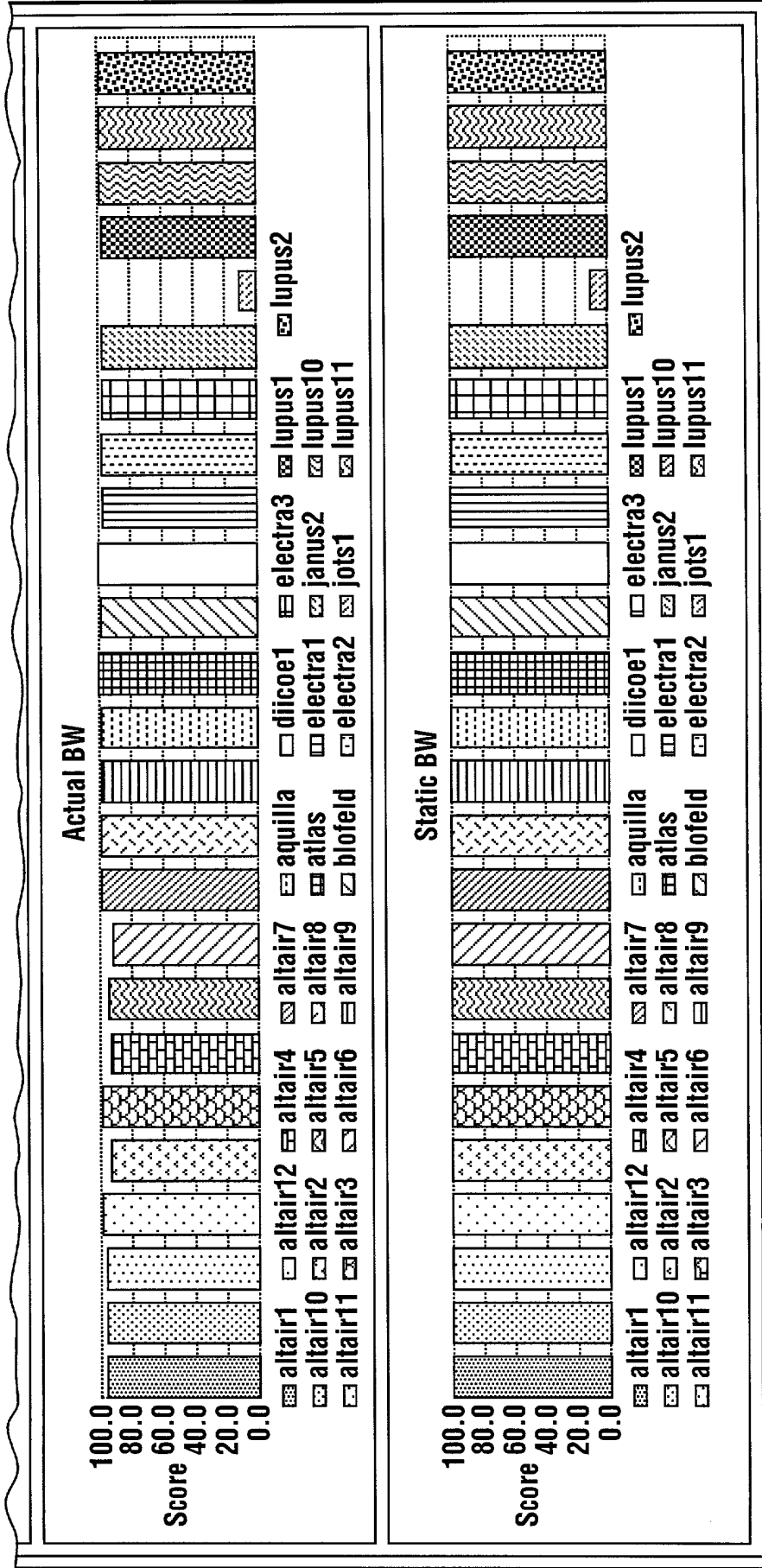
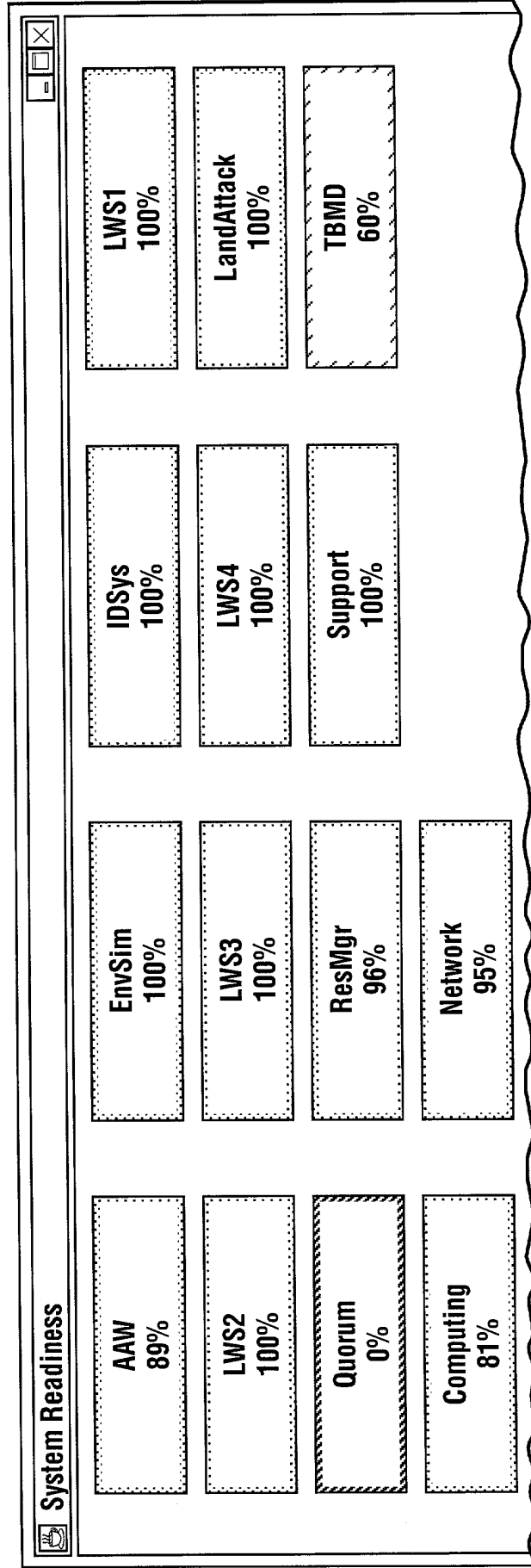


FIG. IIB

FIG.12A



(SEE FIG.12B)

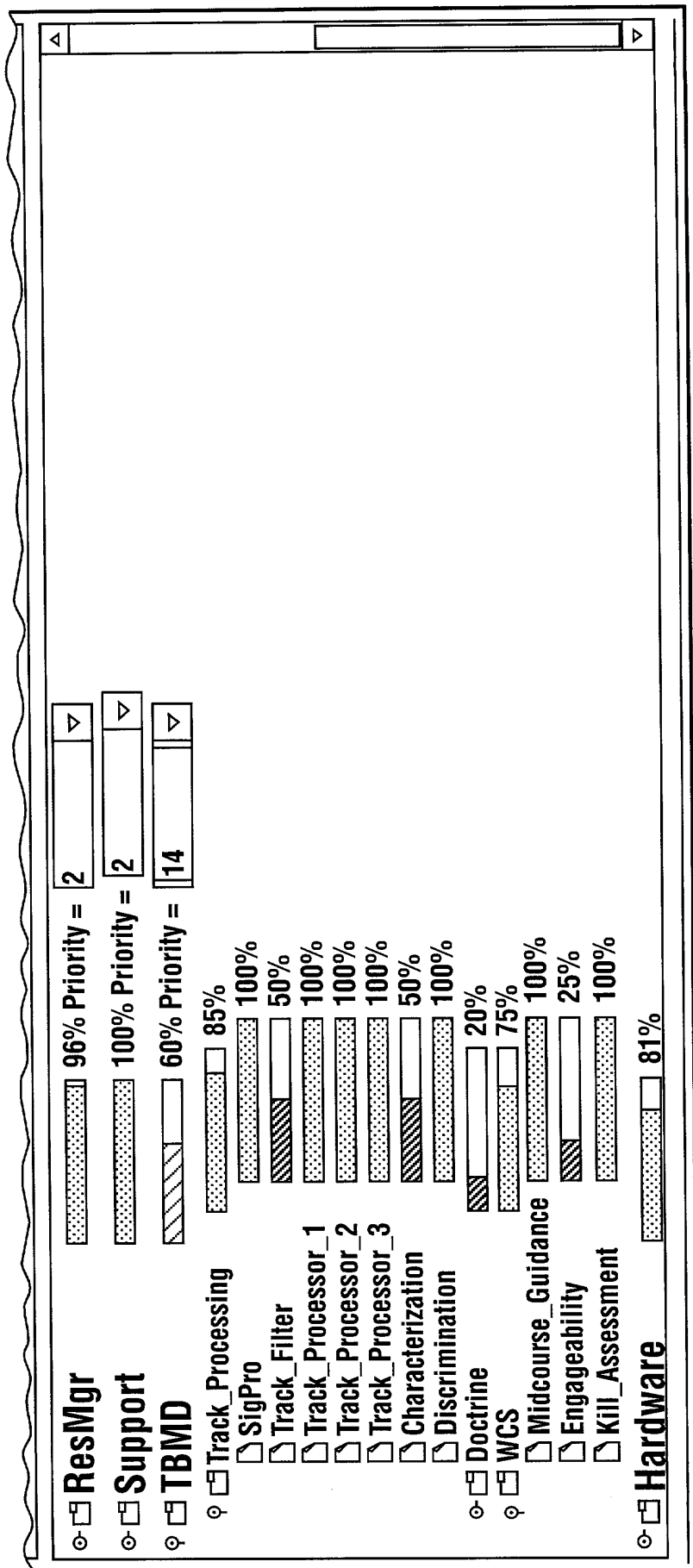


FIG.12B

FIG. 13A

A. Detection of Unacceptable QoS

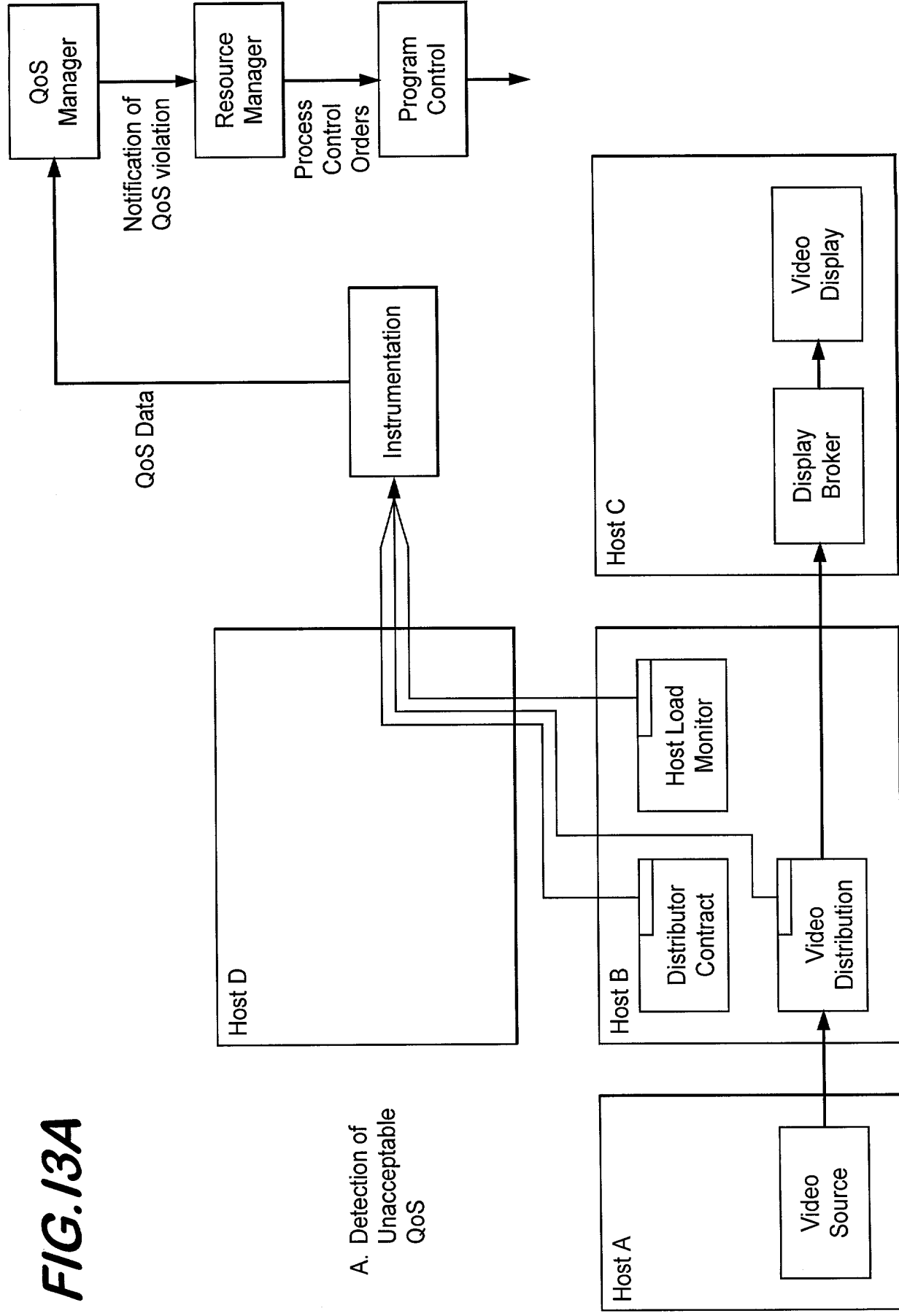
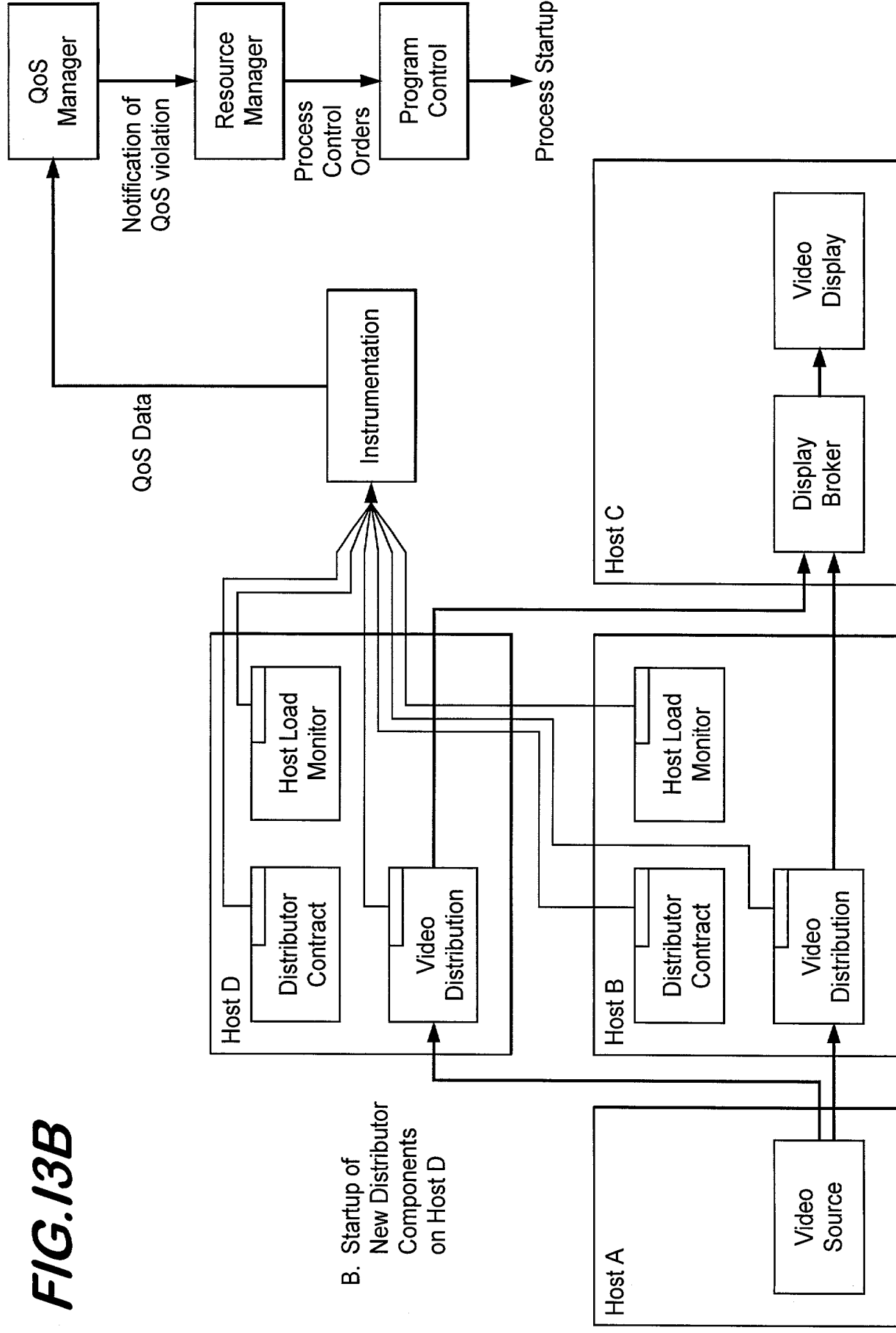
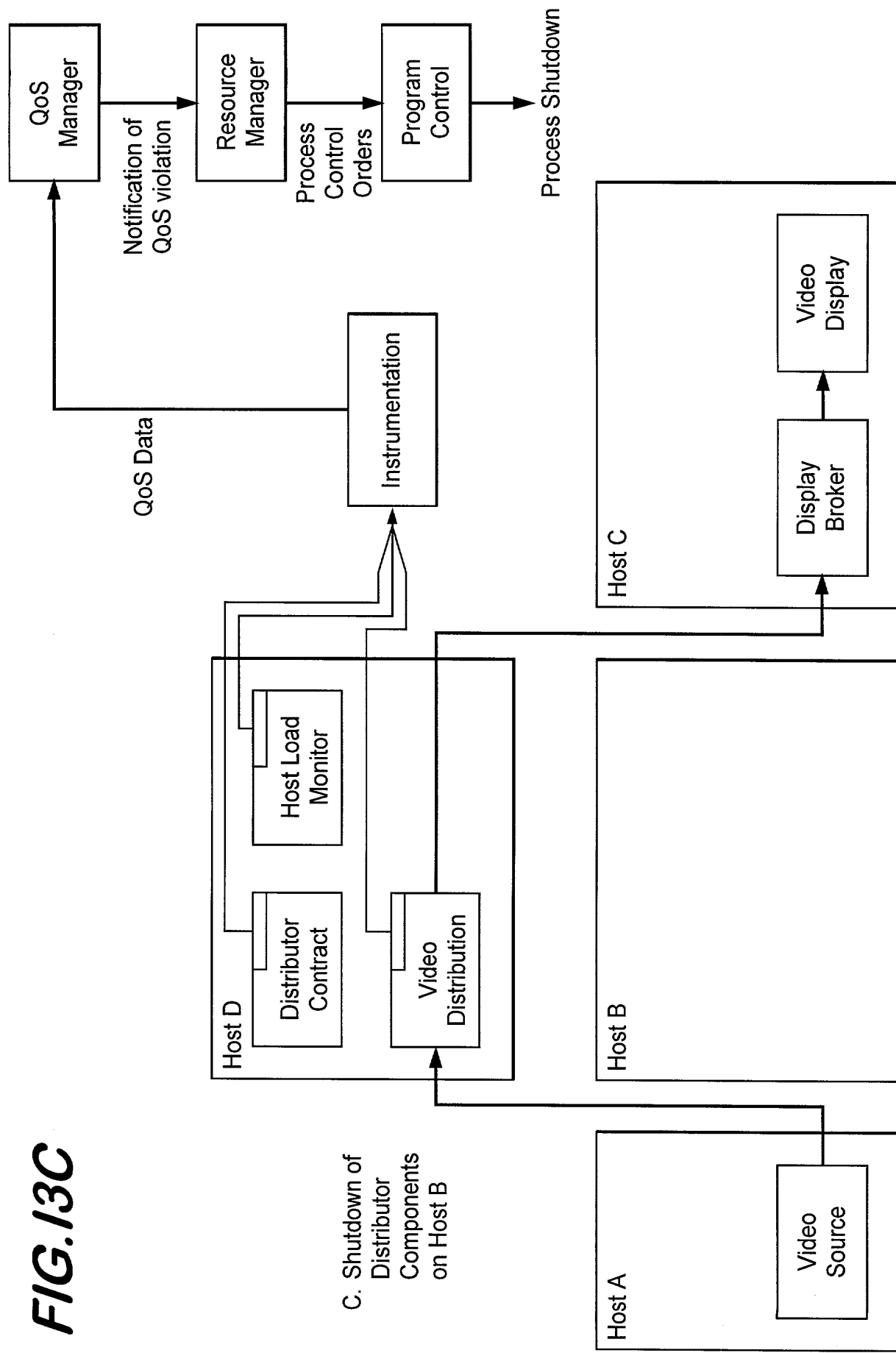


FIG.13B



B. Startup of
New Distributor
Components
on Host D

FIG. 13C



C. Shutdown of
Distributor
Components
on Host B

